**Index of Claims** 



Application/Control No.

10/809,914 Examiner

Kianni C. Kaveh

Applicant(s)/Patent under Reexamination

KATHMAN ET AL.

Art Unit

2883

| <b>√</b> | Rejected |
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| - | (Through numeral)<br>Cancelled |  |  |  |  |  |  |
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| Cla  | aim  | Г  | Date     |              |  |  |  |                |                |  |  |
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| <u>ھ</u>   | Original   | 11/21/06   | 1        |              |  |  |  |                |                |  |  |
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| 21   | 2  | 1  | $\vdash$ | T            | T  | T  | T  | t              | T              | $\vdash$   |  |
| 2  | 3  | 11   | 1        | ✝            | T  | t  | 1  | 1              | ✝              | H  |  |
| 3  | 4  | 11   | T        | T            | $\vdash$   | ı  | T  | 1              | T              | T  |  |
| 1<br>21<br>2<br>3<br>4<br>5                      | 1<br>2<br>3<br>4<br>5<br>6<br>7<br>8                           | Ħ  | Т        | $\vdash$     | 1  | 1  |  | İ              | T              | T  |  |
| 5  | 6  | H  |          | $\vdash$     | 1  |  | 1  | $\vdash$       | ┰              | t  |  |
| 6  | 7  | Η  |          | $\vdash$     | ✝  |  | $\vdash$   | ╁              | $\vdash$       |  |  |
| 7  | 8  | Ħ  | T        |              |  |  | $\vdash$   | T              | T              | ┢┈   |  |
| 8  | 9  | Ħ  | ⇈        | t            | $\vdash$   | T  | <del>                                     </del> | 1              | 1              | İ  |  |
| 9  | 9  | П  | 1        | 1            | T  | T  | Т  | 1              | $\vdash$       |  |  |
| 10   | 11   | П  |          | T            | T  | $\vdash$   | T  | T              | T              | -  |  |
| 16   | 12   | П  | T        | T            | T  | T  | $\vdash$   | T              | 1              |  |  |
| 11   | 13   | П  |          | T            | T  | <u> </u>   | †  |                |                | $\vdash$   |  |
| 11<br>12<br>13<br>14<br>15                       | 14   | Н  | $\vdash$ | <del> </del> | T  | Т  | <del>                                     </del> | †              | T              |  |  |
| 13   | 15   | ††   | H        | t            | t  | T  | t  | 1              | $\vdash$       | $\vdash$   |  |
| 14   | 16   |  |          | _            | <del>                                     </del> | H  | $\vdash$   | $t^-$          | 1-             | t  |  |
| 15   | 17   | V  | 1        | H            | t  | $\vdash$   | $\vdash$   | H              | $\vdash$       | <del>                                     </del> |  |
| <u> </u>   | 18   | <b>"</b>   | $\vdash$ | $\vdash$     | <del>                                     </del> | t  | H  | H              | $\vdash$       | -  |  |
|  | 11<br>12<br>13<br>14<br>15<br>16<br>17<br>18<br>19<br>20<br>21 | $\vdash$   | $\vdash$ | $\vdash$     | 1  | <del>                                     </del> | $\vdash$   | $\vdash$       | <del>  -</del> | -  |  |
|  | 12h  | ┢  | ┢        | ╁            | ╁  | ╁  | -  | ╁              | ╁              |  |  |
| 17   | 21   | =  | $\vdash$ | $\vdash$     | $\vdash$   | $\vdash$   | ├  | +              | ╁              | $\vdash$   |  |
| 18   | 22   | <del>ا</del>                                     | ⊢        | ╁            | ├-   | ╁  | ╁  | ╁              | ├              | -  |  |
| <del></del>                                      | 20-  | Ë  | ⊢        | ╁            | ╁  | ⊢  | $\vdash$   | $\vdash$       | ┢              | $\vdash$   |  |
| 19   | 24   | ┢  | $\vdash$ | $\vdash$     | -  |  | ⊢  | ┢              | -              |  |  |
| <del>ان</del>                                    | 23-<br>24<br>25  | ┝  | $\vdash$ | $\vdash$     | $\vdash$   | ┢  | $\vdash$   | $\vdash$       | ┝              | $\vdash$   |  |
|  | 26   |  | ┢        | ┢            | ┢  |  |  | ┝              | -              |  |  |
| 20   | 26<br>27<br>28<br>29   | ╘  | -        | -            | $\vdash$   | $\vdash$   | $\vdash$   | ├-             | ┢              |  |  |
|  | 28   | <del>                                     </del> | -        | $\vdash$     | $\vdash$   | $\vdash$   | <del> </del>                                     | ╁╌             | ┢              | H  |  |
|  | 29   |  | -        | ┢            | ┢  | $\vdash$   | ┝  | -              | <del> </del>   | $\vdash$   |  |
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|  | 31   | $\vdash$   | -        | 1            |  | $\vdash$   | ├-   | $\vdash$       | _              | $\vdash$   |  |
| <b>-</b>   | 31<br>32<br>33   |  | -        | -            | $\vdash$   | $\vdash$   | $\vdash$   | $\vdash$       | $\vdash$       | Н  |  |
| <del>                                     </del> | 33   | $\vdash$   | -        | $\vdash$     | $\vdash$   | $\vdash$   | ├─   | ├              | $\vdash$       | $\vdash$   |  |
|  | 34   | $\vdash$   | $\vdash$ | $\vdash$     | <del>                                     </del> | $\vdash$   | $\vdash$   | -              | -              | $\vdash$   |  |
|  | 34<br>35   | $\vdash$   | -        | -            | $\vdash$   | -  | ├-   | $\vdash$       | -              | $\vdash$   |  |
|  | 36   | $\vdash$   | $\vdash$ | -            | $\vdash$   |  |  |                | _              | Н  |  |
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|  | 38   | $\vdash$   | $\vdash$ | ┢            | $\vdash$   | $\vdash$   | $\vdash$   | -              |                | $\vdash$   |  |
| $\vdash$   | 39   | Н  | $\vdash$ | ├-           | $\vdash$   | $\vdash$   | -  | <del>  -</del> | $\vdash$       | Н  |  |
|  | 40   | Н  |          | -            | $\vdash$   | $\vdash$   | $\vdash$   | $\vdash$       | $\vdash$       | Н  |  |
| <del>  </del>                                    | 41   | -  |          | <del> </del> | $\vdash$   | <del> </del>                                     | $\vdash$   |                | $\vdash$       | $\vdash$   |  |
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| <del>                                     </del> | 43   |  | -        | $\vdash$     | -  | $\vdash$   | $\vdash$   | $\vdash$       | $\vdash$       |  |  |
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| $\vdash$   | 47   |  |          |              | ļ.,  |  |  |                |                | $\dashv$   |  |
| $\vdash$   | 48   |  |          | -            | -  |  |  | $\vdash$       | ш              | $\sqcup$   |  |
| ┝─┤  | 49   | $\vdash$   |          |              |  |  | $\vdash$   | Ы              | Щ              | $\dashv$   |  |

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|--|----------|----------|----------|--------------|--|----------------|--------------|-----|---------|------------|----------|----------|--------------|--------------|----------|------------|--|----------|--|
| 51         52           53         54           55         56           57         58           59         60           61         62           63         64           65         66           67         68           69         70           71         72           73         74           75         76           77         78           79         80           81         82           83         84           84         85           86         89           90         90           91         92           93         94           95         96           97         98           99         99  |          |          | [        |              |  |                | Γ            |     |         |            |          |          |              | _            | _        | Γ          |  |          |  |
| 51         52           53         54           55         56           57         58           59         60           61         62           63         64           65         66           67         68           69         70           71         72           73         74           75         76           77         78           79         80           81         82           83         84           84         85           86         89           90         90           91         92           93         94           95         96           97         98           99         99  |          |          |          |              | 1  |                |              |     | a       | <u>≘</u> . |          |          |              |              |          | ĺ          | İ  |          |  |
| 51         52           53         54           55         56           57         58           59         60           61         62           63         64           65         66           67         68           69         70           71         72           73         74           75         76           77         78           79         80           81         82           83         84           84         85           86         89           90         90           91         92           93         94           95         96           97         98           99         99  |          | ĺ        | l        | İ            | 1  |                |              |     | ᆵ       | ij         |          |          |              | 1            |          |            |  |          |  |
| 52<br>53<br>54<br>55<br>56<br>57<br>58<br>59<br>60<br>61<br>62<br>63<br>64<br>65<br>66<br>67<br>68<br>69<br>70<br>71<br>71<br>72<br>73<br>74<br>75<br>76<br>77<br>78<br>79<br>80<br>81<br>81<br>82<br>83<br>84<br>84<br>85<br>86<br>87<br>88<br>89<br>90<br>91<br>91<br>92<br>93<br>94<br>99<br>98<br>99<br>98<br>99   |          |          |          | l            |  |                |              |     | _       | Ō          | İ        |          |              |              |          | l          |  |          |  |
| 52         53         54         55         56         57         58         59         60         61         62         63         64         65         66         67         68         69         70         71         72         73         74         75         76         77         78         79         80         81         82         83         84         85         86         87         88         89         90         91         92         93         94         95         96         97         98         99  | _        | ┝        | ┢        | ┝            | ╁╌   | ╁              | ╁            | 1   |         | 51         | ┝        | -        | $\vdash$     | -            | -        | ⊢          | -  | ⊢        | ⊢  |
| 53         54         55         56         57         58         59         60         61         62         63         64         65         66         67         68         69         70         71         72         73         74         75         76         77         80         81         82         83         84         85         86         87         88         89         90         91         92         93         94         95         96         97         98         99   |          | $\vdash$ | ┢        | $\vdash$     | ╁  | +-             | ╁            | 1   |         | 52         | ├─       | -        | $\vdash$     | -            | -        | $\vdash$   | -  | ⊢        | ├-   |
| 54         55         56         57         58         59         60         61         62         63         64         65         66         67         68         69         70         71         72         73         74         75         76         77         78         79         80         81         82         83         84         85         86         87         88         89         90         91         92         93         94         95         96         97         98         99  | _        | $\vdash$ | $\vdash$ | ╁            | +-   | ╁              | ┢╌           | 1   |         | 52         | -        |          | ┝            | <del> </del> | _        | ⊢          | ⊢  | ├-       | -  |
| 55       56         57       58         59       60         61       62         63       64         65       66         67       68         69       70         71       72         73       74         75       76         77       78         79       80         81       82         83       84         85       86         87       88         89       90         91       92         93       94         95       96         97       98         99       99  | _        | -        |          | ┢            | -  | ╁              | ⊢            | 1   |         | 53         | <u> </u> | ┝        | -            |              | -        | ⊢          | ⊢  | -        | -  |
| 56       57         58       59         60       61         62       63         63       64         65       66         67       68         69       70         71       72         73       74         75       76         77       78         79       80         81       82         83       84         85       86         87       88         89       90         91       92         93       94         95       96         97       98         99       99  | _        |          | ļ        | ┝            | ┢  | -              | ⊢            | 1   |         | 54         | -        | ┝        | _            | ┝            | ┡        | -          | <u> </u>   | ┞        | <u> </u>                                     |
| 57       58         59       60         60       61         62       63         63       64         65       66         67       68         69       70         71       72         73       74         75       76         77       78         79       80         81       82         83       84         85       86         87       88         89       90         91       92         93       94         94       95         98       99  | _        |          | -        | -            | ╀  | <b> </b>       |              | 1 ] |         | 22         | _        | _        | _            | <u> </u>     | <u> </u> | _          | ļ  | -        |  |
| 58       59         60       61         61       62         63       64         65       66         67       68         69       70         71       72         73       74         75       76         77       78         80       81         81       82         83       84         85       86         87       88         89       90         91       91         92       93         94       94         98       99  | $\dashv$ | _        | -        | ├            | ┼-   | ⊢              | _            | 1   |         | 20         | _        | <u> </u> |              | <u> </u>     | <u> </u> | _          | ┡  |          |  |
| 59       60         61       62         63       64         65       66         67       68         69       70         71       72         73       74         75       76         77       78         79       80         81       82         83       84         84       85         86       87         87       88         89       90         90       91         92       93         94       94         95       96         97       98         99       99  |          | _        | ⊢        | -            | ⊢  | ┢              | <del> </del> | 1   |         | 5/         | <u> </u> | <u> </u> | <u> </u>     | <u> </u>     | -        | <u> </u>   | ├-   | -        | <u> </u>                                     |
| 60 61 62 63 63 64 65 66 66 67 68 68 69 70 70 71 71 72 73 74 75 76 76 77 77 77 77 77 77 77 77 77 77 77  | 4        |          | ⊢        | -            | ┼  | -              |              |     |         | 58         | <u> </u> | <u> </u> | $\vdash$     | _            |          |            | $\vdash$   | <u> </u> | ļ  |
| 61<br>62<br>63<br>64<br>65<br>66<br>67<br>68<br>69<br>70<br>71<br>72<br>73<br>74<br>75<br>76<br>77<br>78<br>79<br>80<br>81<br>82<br>83<br>84<br>85<br>86<br>87<br>88<br>89<br>90<br>91<br>91<br>92<br>93<br>94<br>95<br>96<br>97<br>98<br>99   | _        |          | ⊢        | ⊨            | ╁  | ├-             | _            | 1   |         | 59         | _        |          | L            | _            |          | ⊢          | <u> </u>   | <u> </u> |  |
| 62<br>63<br>64<br>65<br>66<br>67<br>68<br>69<br>70<br>71<br>72<br>73<br>74<br>75<br>76<br>77<br>78<br>79<br>80<br>81<br>82<br>83<br>84<br>84<br>85<br>86<br>87<br>88<br>89<br>90<br>90<br>91<br>91<br>92<br>93<br>94<br>95<br>96<br>97<br>98<br>99   | _        | _        | ⊢        | ┝            | ╀  | ▙              | ļ            |     |         | 60         | _        | _        | <u> </u>     |              |          | <u> </u>   | _  | _        | _  |
| 63 64 64 65 65 66 67 67 68 69 70 71 71 72 73 74 75 76 76 77 78 80 80 81 82 83 84 85 85 86 87 88 89 90 90 91 91 92 93 93 94 94 95 96 97 7 98 80 99 99 99 99 99 99 99 99 99 99 99 99 99  | -        | _        | ⊢        | ⊢            | ┼  | -              | _            |     |         | 61         |          |          |              | <u> </u>     |          | <u> </u>   | _  | L        | Ш  |
| 64   65   66   67   68   69   70   71   72   73   74   75   76   77   78   79   80   81   82   83   84   85   86   87   88   89   90   91   92   93   94   95   96   96   99   99   99   99   99   | _        |          | <u> </u> | <del> </del> | $\vdash$   | $\vdash$       | <u> </u>     |     |         | 62         |          | <u> </u> | <u> </u>     | Ш            |          | <b> </b> _ |  | <u> </u> | lacksquare                                   |
| 65<br>66<br>67<br>68<br>69<br>70<br>71<br>72<br>73<br>74<br>75<br>76<br>77<br>78<br>79<br>80<br>81<br>82<br>83<br>84<br>85<br>85<br>86<br>87<br>88<br>89<br>90<br>91<br>92<br>93<br>94<br>95<br>96<br>97<br>98<br>99   | _        |          | Ь        | <b>!</b>     | ╄  | <del> </del>   | <u> </u>     |     |         | 63         | <u> </u> |          | _            | _            |          | <u> </u>   | <u> </u>   | <u> </u> | _  |
| 66<br>67<br>68<br>69<br>70<br>71<br>72<br>73<br>74<br>75<br>76<br>77<br>78<br>79<br>80<br>81<br>82<br>83<br>84<br>85<br>86<br>87<br>88<br>89<br>90<br>91<br>92<br>93<br>94<br>95<br>96<br>97<br>98<br>99   | _        |          | <u> </u> | <u> </u>     | 1_   | <u> </u>       | <u> </u>     |     |         |            | L.       |          | Ш            | Ш            | Щ.       |            | $ldsymbol{ldsymbol{ldsymbol{eta}}}$              | _        | _  |
| 67<br>68<br>69<br>70<br>71<br>72<br>73<br>74<br>75<br>76<br>77<br>78<br>79<br>80<br>81<br>82<br>83<br>84<br>85<br>86<br>87<br>88<br>89<br>90<br>91<br>92<br>93<br>94<br>95<br>96<br>97<br>98<br>99   | _        |          | <u> </u> | _            | ┞.   | <del> </del> _ | _            |     |         | 65         |          |          | $oxed{oxed}$ | _            |          | <u> </u>   | <u> </u>   |          | Ш  |
| 68<br>69<br>70<br>71<br>72<br>73<br>74<br>75<br>76<br>77<br>78<br>79<br>80<br>81<br>82<br>83<br>84<br>85<br>86<br>87<br>88<br>89<br>90<br>91<br>92<br>93<br>94<br>95<br>96<br>97<br>98   | _        |          | <u> </u> | _            | _  | <u> </u>       |              |     |         | 66         |          |          |              |              |          |            |  |          | <u>.                                    </u> |
| 69<br>70<br>71<br>72<br>73<br>74<br>75<br>76<br>77<br>78<br>79<br>80<br>81<br>82<br>83<br>84<br>85<br>86<br>87<br>88<br>89<br>90<br>91<br>92<br>93<br>94<br>95<br>96<br>97<br>98<br>99   | _        |          | <u> </u> |              | 1_   | L_             | <u> </u>     |     |         | 67         |          |          | Ш            |              |          |            | _  | _        |  |
| 70 71 72 73 74 75 76 77 78 78 79 80 80 81 81 82 83 84 85 86 87 88 89 90 91 91 92 93 94 95 96 97 98 99 99   |          |          |          |              |  | L              |              |     |         | 68         |          |          |              |              |          |            |  | <u> </u> |  |
| 71   |          |          |          |              |  |                |              |     |         | 69         |          |          |              |              |          |            |  |          |  |
| 72   |          |          |          |              | L  | L.             |              | ] [ |         | 70         |          |          |              |              |          |            |  |          |  |
| 72<br>73<br>74<br>75<br>76<br>77<br>78<br>79<br>80<br>81<br>82<br>83<br>84<br>85<br>86<br>87<br>88<br>89<br>90<br>91<br>92<br>93<br>94<br>95<br>96<br>97<br>98<br>99   |          |          |          |              |  |                |              |     |         | 71         |          |          |              |              |          |            |  |          |  |
| 74   |          |          |          |              |  |                |              |     |         | 72         |          |          |              |              |          |            |  |          |  |
| 74   |          |          |          |              | Г  |                |              |     |         | 73         |          |          |              |              |          |            | П  |          |  |
| 75 76 77 78 78 79 80 81 82 83 84 85 86 87 88 89 90 90 91 91 92 93 94 95 96 97 98 99  |          |          |          |              |  |                |              |     |         | 74         |          |          |              |              |          |            |  |          |  |
| 76   |          |          |          |              | Π  |                |              |     |         | 75         |          |          |              |              |          |            |  |          | П  |
| 77   | 7        |          |          |              |  |                |              |     |         | 76         |          |          |              |              |          |            |  |          | П  |
| 78   | $\neg$   |          |          |              |  | Г              |              |     |         | 77         |          |          |              |              |          | -          |  |          |  |
| 79 80 81 81 82 83 84 85 86 87 88 89 90 91 91 92 93 93 94 95 96 97 98 99 99   | ┪        |          |          |              |  |                |              | ĺÌ  |         | 78         |          | _        |              |              |          |            |  |          | Н  |
| 80<br>81<br>82<br>83<br>84<br>85<br>86<br>87<br>88<br>89<br>90<br>91<br>92<br>93<br>93<br>94<br>95<br>96<br>97<br>98<br>99   | 7        |          |          |              |  |                | Т            |     |         | 79         |          | _        |              |              |          | _          |  |          | Н  |
| 81<br>82<br>83<br>84<br>85<br>86<br>87<br>88<br>89<br>90<br>91<br>92<br>93<br>93<br>94<br>95<br>96<br>97<br>98<br>99   | ٦        |          |          | l –          | $\vdash$   |                |              |     |         | 80         |          |          |              |              |          | -          |  |          | Н  |
| 82<br>83<br>84<br>85<br>86<br>87<br>88<br>89<br>90<br>91<br>92<br>93<br>93<br>94<br>95<br>96<br>97<br>98<br>99   | ┪        |          | _        | _            | t  |                |              | l l |         | 81         |          |          | -            |              |          |            |  |          | Н  |
| 83<br>84<br>85<br>86<br>87<br>88<br>89<br>90<br>91<br>92<br>93<br>93<br>94<br>95<br>96<br>97<br>98   | T        |          |          | $\vdash$     | $\vdash$   |                |              |     |         | 82         |          |          | Н            | -            |          | $\vdash$   | $\vdash$   |          | Н  |
| 84 85 86 87 88 89 90 90 91 91 92 93 93 94 95 96 97 98 99 99  |          |          |          | Ι-           | $f^-$  | Н              | Н            |     |         | 83         | $\vdash$ |          | $\dashv$     | $\dashv$     |          | -          | <del>                                     </del> |          | $\vdash$                                     |
| 85<br>86<br>87<br>88<br>89<br>90<br>91<br>92<br>93<br>93<br>94<br>95<br>96<br>97<br>98<br>99   | 7        | _        |          | H            | H  |                |              | }   |         | 84         | $\vdash$ | -        | $\vdash$     |              |          | $\vdash$   |  | $\vdash$ | $\vdash$                                     |
| 86<br>87<br>88<br>89<br>90<br>91<br>91<br>92<br>93<br>93<br>94<br>95<br>96<br>97<br>98   | +        |          | _        | _            | $\vdash$   | $\vdash$       | Н            |     |         | 85         | $\dashv$ | -        | $\vdash$     | $\dashv$     |          | -          |  |          | $\vdash$                                     |
| 87<br>88<br>89<br>90<br>91<br>91<br>92<br>93<br>93<br>94<br>94<br>95<br>96<br>97<br>98   | +        |          |          | ├            | <del>                                     </del> | $\vdash$       | -            |     |         | 86         |          |          |              | $\dashv$     |          | -          | -  | -        | $\vdash\vdash$                               |
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| 89<br>90<br>91<br>92<br>93<br>94<br>95<br>96<br>97<br>98<br>99   | 7        |          |          | H            | <del>                                     </del> |                |              |     |         | 88         | $\dashv$ |          | $\dashv$     | -            |          | _          | Н  |          | Н  |
| 90<br>91<br>92<br>93<br>93<br>94<br>95<br>95<br>96<br>97<br>98<br>99   | ┥        |          |          |              | ├  | H              |              | }   |         | 80         | -        |          | $\dashv$     |              |          |            | $\vdash$   |          | Н  |
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| 92<br>93<br>94<br>94<br>95<br>96<br>97<br>98<br>99   | $\dashv$ | $\dashv$ | _        |              |  | $\vdash$       |              |     |         |            |          | -        |              |              | _        |            | $\vdash$   |          | $\vdash$                                     |
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| 96<br>97<br>98<br>98<br>99   | 4        | $\dashv$ |          | -            | -  | $\vdash$       | $\dashv$     |     |         |            |          |          | _            | _            | _        |            | Н  | _        | Ш  |
| 97<br>98<br>99<br>99   | +        |          |          |              | -  | Н              | $\dashv$     | ŀ   | -       | 95         | _        | _        |              | _            |          |            |  | _        | Щ  |
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|                   | 118<br>119               |  |  |  |  |            |  |          |          |                |
|                   | 119                      |  |  |  |  |            |  |          |          |                |
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|                   | 133                      | <del>                                     </del> | $\vdash$   |  |  |            |  |          |          | Н              |
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|                   | 137<br>138               |  |  |  |  |            |  |          |          |                |
| ]                 | 138                      |  |  |  |  |            |  |          |          |                |
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|                   | 140                      | Ш  | <u> </u>   | <u> </u>   |  | <u>L</u> . | <u> </u>   |          |          | $\sqcup$       |
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